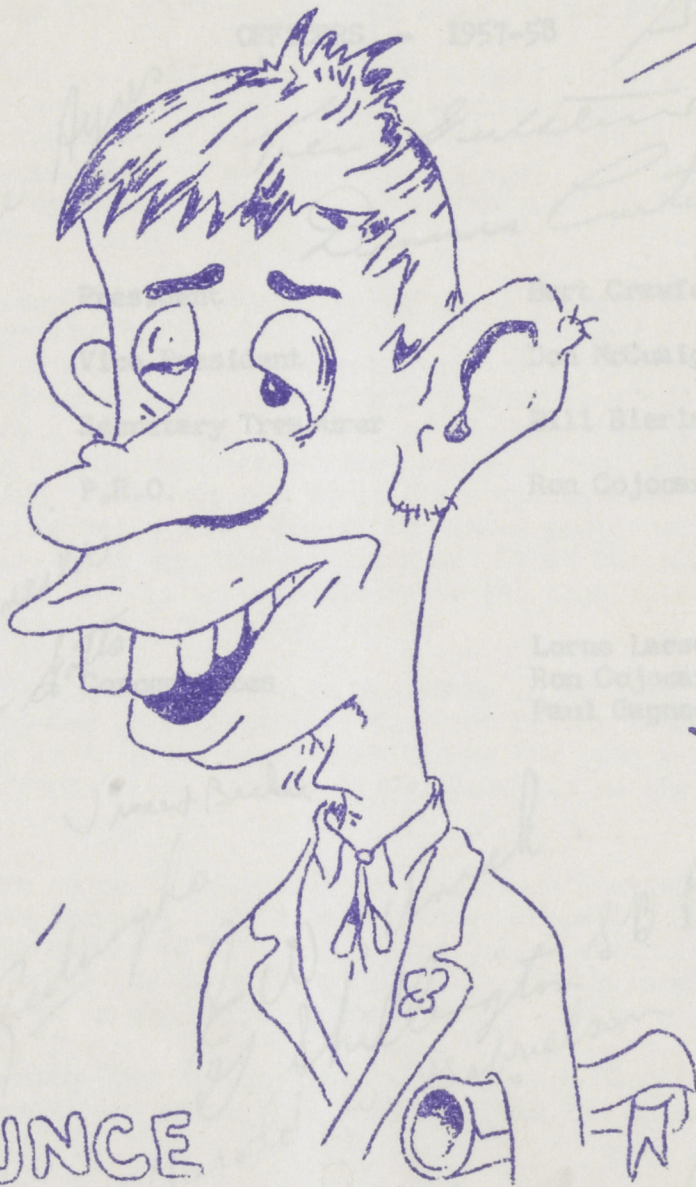


THE CONCENTRATES

57-58



SIX MUNCE
UGO I CUTNT EVN
SPELL GEOLOGEST AN
NOW I ARE ONE....

James Friesen
Angus L. Khan
Gene Friesen
Don. Yont
Bill Evans
Ben Pfeffer
Bryan G. Payne

Ken Friesen
 1957-58

George Perkins

G. F. Hild

OFFICERS - 1957-58

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Denise Cartwright
Travis Hage

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W. H. Hamilton

Bob Hardy

Don Lykes

Jim Bonford

E.E. Zederwyska

Peter Piro
Don McCuaig

EDITORIAL

Here at last is the Concentrates. Your staff fully intended to have it out in record time this year but, as the poet said,

"The best-laid schemes o' mice an' men
Gang aft agley,
An' lea'e us nought but grief an' pain,
For promis'd joy!"

We hope you get some joy from the finished product.

Another year has rolled by, and a very significant year it was for the Department of Geology. With the appointment of Dr. Smith as assistant professor and Dr. Caldwell as special lecturer, the faculty is now almost double what it was three years ago. This is indicative of a very healthy department and of a growing interest in the science of geology.

The long awaited expansion has finally begun in earnest and should be completed by the Fall of '58. The Geology 1 and 2 laboratories are now held in the new class room by the library and the Geology 31 laboratory and lectures are being held in room 26 - out beyond the carpenter shop. A room for the Geology 61 laboratory and an office for Dr. Smith and Dr. Caldwell have also been acquired in the same portion of the building. With the new power plant rapidly nearing completion the machinery is being moved out of the shops and it will not be long before we have taken over the entire area. That the space will be fully utilized can be seen by an examination of the figures on the following pages (courtesy of Dr. Mawdsley).

The fact that industry is beginning to realize more fully its responsibility for bearing part of the cost of the education of professional personnel was felt in the Department during the past year. Details of this can be found in the article by Dr. Mawdsley on the last page in this Concentrates.

We are sorry to hear that Dr. Shearn is leaving the Department and going into industry with Esso Petroleum Company. During his three years at Saskatchewan he has done a fine job of establishing the Petroleum Engineering course and in setting up the Petroleum laboratory. We wish him all the best in the years to come.

A closing word to the graduating class. Good luck in the forthcoming exams and after that remember that two-thirds of promotion is motion.

Number handled by the Department

1957-1958

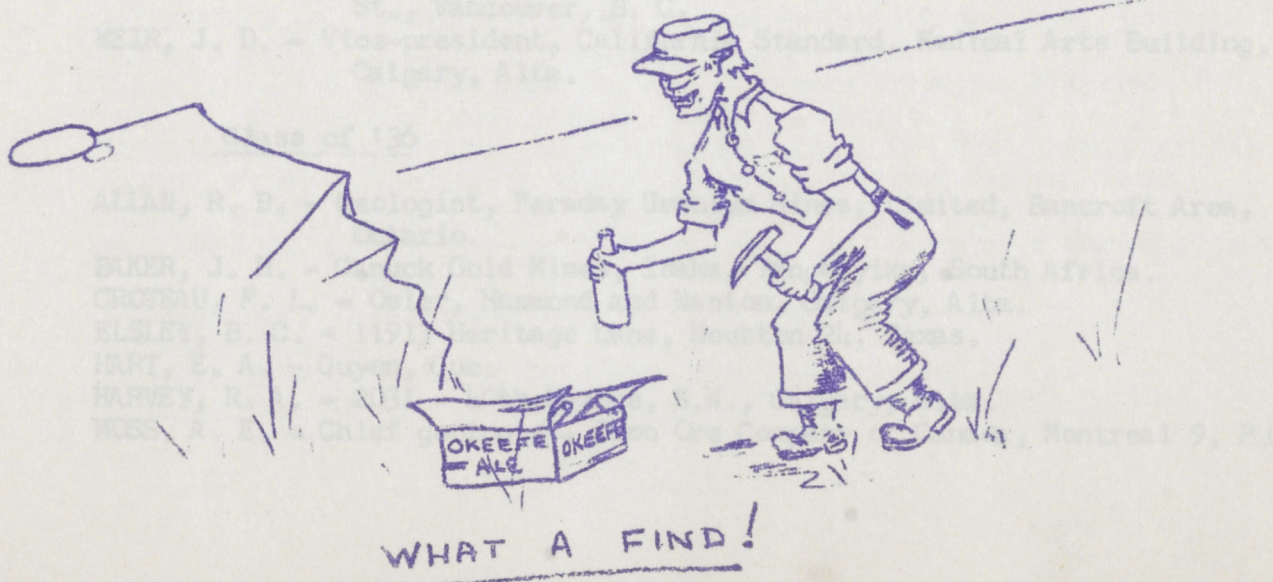
	<u>Student-classes</u>	<u>Individuals</u>
Geology 1 (Arts)	61	61
Geology 2 (Engineers)	293	293
Senior classes	257	71
	<hr/> 611	<hr/> 415
Biological Sciences A (six weeks)	153	153
Graduate students in session		6

Numbers in Graduating class of 1958

Geological Engineers	16
Petroleum Engineers	2
Honours Arts and Science	2
Pass Arts and Science	6
	<hr/> 26

Graduates

B. E. Geological Engineering (1937-57)	156
B. A. Honours Geology, (1929-57)	17
B. A.'s Geology	120
M. A. and M. Sc. Geology (1947-57)	24
(seven not in session have details to finish)	
21 graduates have received Ph.D's elsewhere and	
10 are at various stages of obtaining it.	



The following, to the best of our knowledge, are the correct addresses of all the grads of whom we were able to obtain records, Please notify us of any errors or omissions so that the records may be kept up-to-date for the next issue of the Concentrates.

Class of '29

HAGE, C. O. - Consulting, 103 Derrick Building, Calgary, Alta.

Class of '30

KEEVIL, N. B. - President, Mining Geophysics Corporation Limited,
11 Jordan St., Toronto.

Class of '31

WILSON, N. L. - 2 Donegal Avenue, Greenside E.,
Johannesburg, Union of South Africa

Class of '32

NICHOLSON, T.A.E. - Farming, Tuxford, Sask.
SHAW, G. - Geophysical and Geological Consultant, Ottawa.

Class of '33

GARNETT, R. E. - 118 Martin Avenue, Winnipeg, Man.
LANDES, R. W. - Assistant Manager in charge of Exploration, Imperial Oil
Limited, Calgary, Alta.

Class of '34

MALOUF, S. E. - Consulting Geologist, Box 134, Chibougamau, P. Que.
NORDAL, J. G. - 241 Gorge Road, E., Victoria, B. C.

Class of '35

HOGG, C. A. L. - Deputy Minister, Department of Mineral Resources,
Government Administration Building, Regina, Sask.
SCOTT, J. F. - Kenneco Explorations Limited, Room 802, 402 West Pender
St., Vancouver, B. C.
WEIR, J. D. - Vice-president, California Standard, Medical Arts Building,
Calgary, Alta.

Class of '36

ALLAN, R. B. - Geologist, Faraday Uranium Mines, Limited, Bancroft Area,
Ontario.
BAKER, J. H. - Canuck Gold Mines, Isaka, Tanganyika, South Africa.
CROTEAU, F. L. - Osler, Hammond and Nanton, Calgary, Alta.
ELSLEY, B. C. - 11913 Heritage Lane, Houston 24, Texas.
HART, E. A. - Quyon, Que.
HARVEY, R. A. - 2031 - 40th Avenue, S.W., Calgary, Alta.
MOSS, A. E. - Chief geologist, Iron Ore Company of Canada, Montreal 9, P.Q.

PARRES, J. C. - Managing Director, Dee Explorations Limited, 502 Standard Building, Saskatoon, Sask.
ROBINSON, W. G. - Geologist for Ventures Limited, Noranda, P.Q.
STEWART, G. T. - Deceased, 1953.
THOMPSON, M. C. - Canuck Gold Mines, Isaka, Tanganyika, South Africa
THOMSON, J. A. - Box 97, Yellowknife, N.W.T.
TIBBITT, J. F. - 822, 16th St. N.W., Calgary, Alta.
TRENHOLM, L. S. - Consulting Geologist, 186 Frontenac Avenue, Noranda, Que.

Class of '37

AKEHURST, A. J. - Shell Oil Company of Canada Limited, Calgary, Alta.
AMES, H. - 800 Colony Street, Saskatoon, Sask.
CLARKE, J.M.C. - Dominion Acids Corporation, Winnipeg, Man.
CREED, D. A. - R.C.A.F. Rockcliffe, Ont.
FOULDS, W.A.H. - Ft. Qu'Appelle, Sask.
GREIG, E. W. - Aluminum Co. of Canada, Hudson Heights, P.Q.
MacKAY, D. G. - Aeromagnetic Survey Limited, 1460 O'Connor Drive, Toronto, Ontario
MORROW, H. F. - Gardner, Low and Morrow (Mining and Petroleum Geologists), 16 Banner Building, Regina, Sask.
PENNER, D. G. - Research Geologist, Royalite Oil Company, Calgary, Alta.
REDFORD, L. R. - Aunor Mines, Timmins, Ontario
SWANSON, E. A. - Buchans, Newfoundland

Class of '38

BERENBOM, George - 8678 - Bay Parkway, Brooklyn, 14, N.Y.
CHRISTOPHER, I. C. - Box 280, Bourlamarque, Que.
CRULL, E. T. - Dickenson Red Lake Mines, Limited, Balmerton, Ont.
DENTON, W. E. - International Petroleum, Talara, Peru.
GALLUP, W. B. - Gallup, Buckland, and Ferney, Calgary, Alta.
HANCOCK, W. P. - Merrill Petroleum Limited, 510A 8th Avenue W, Calgary, Alta.
McDOUGALL, G. H. - Giant Yellowknife Gold Mines, Limited, N.W.T.
MOORE, G. N. - Exploration Superintendent, C.M. and S., Port Arthur, Ont.
PARRES, A. L. - Consulting Geologist, Flin Flon, Man.

Class of '39

BROWN, G. W. - 310 Lanark St., Winnipeg, Man.
BROWNING, J. M. - Staff Geologist, Tennessee Gas Transmission, Houston, Tex.
CLARE, F.B.L. - Imperial Oil Company, Regina, Sask.
CLARE, H. - 115 25 Notre Dame St. E., Pointeaux Trembles, Montreal, P.Q.
HAHN, H. G. - No. 36 Cecil Street, Toronto, Ontario
LABERGE, A. L. - Assistant Superintendent, Leduc Oil Field, Calgary, Alta.
LAWSON, W. R. - Teaching at Balfour Technical School, Regina, Sask.
NORRIS, R. W. - 1500 King St. West, Toronto, Ont.
PETTIGREW, R. K. - Petroleum Engineer, Shell Oil Company of Canada, Limited, Regina, Sask.
SANDERSON, W. J. - Imperial Oil Limited, Regina, Sask.
SIDONS, J. D. -
THORSON, E. F. - Imperial Oil Limited, Edmonton, Alta.
THRALL, G. W. - Chief Geologist, Levack Mine, INCO, Levack, Ont.

WARNING, G.F. - Geology Department, C. M. and S. Kimberley, B. C.
WHATLEY, J. M. - Head of Hoist Department, Canadian Ingersoll-Rand Co.,
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Class of '40

BADENOCK, D. C. -
BAILLIE, W. - Frontier Geophysical Limited, 1504 - A 14th Street, S. W.,
Calgary, Alta.
BEARD, G. C. - Beard Drilling Company, Calgary, Alta.
DOUGLAS, J. M. - C. M. and S., Pine Point, N.W.T.
FAST, H. J. - Chief Engineer of Maintenance of Way of Central Region,
Union Station, Rm. 426, Toronto 1, Ontario
GREENBERG, M. - 329 1/2 Pritchard Avenue, Winnipeg, Man.
HENRY, V. D. - Youth Employment Bureau, Toronto, Ontario
KEEVIL, A. R. - California Standard Oil, Calgary, Alta.
McPHERSON, W. J. - Calvin Consolidated Oil and Gas, 2131 - 31st Ave. S.W.,
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PEEK, G. C. - R.C.A.F. Shimmerside, P.E.I.
THODAY, G. P. - Box 115, Haileybury, Ont.

Class of '41

AKEHURST, E. L. - Shell Oil Company of Canada, Limited, Calgary, Alta.
CAIRNS, R. B. - Mine Geologist, H.B.M. and S., Flin Flon, Man.
CAVERLY, J. - Gardner-Denver Company, Quincy, Ill., 623 - S. 18th Avenue.
CHACHULA, S. - Farming at Bienfait, Sask.
FRANTZ, J. C. -
HARDING, S.R.L. - J.C. Sproule and Associates, 901 - 8th Avenue, W.,
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IBBOTSON, J. - Pacific Petroleum, Ft. St. John, B.C.
LADD, H. S. - U.S. Geological Survey, Washington, D.C.
MARKLAND, G.D. - Britannia Mines, Britannia Beach, B. C.
SHIRKIE, J. - R.R. No. 1, Clairemont, Ontario
TAYLOR, B. - Geologist, Quemont Mining Corporation, 172 Frontenac Ave.,
Noranda, P.Q.

Class of '42

COLE, J. R. - Shawinigan Chemicals Ltd., Shawinigan Fall, Que.
CONNICK, T. - Imperial Oil Limited, Calgary, Alta.
COONS, R. M. - Co-Ordinator, Oil and Gas Conservation Board, Government
Administration Building, Regina, Sask.
HAMILTON, F. J. - Consulting, Calgary, Alta.
HARDING, S.R.L. - J. C. Sproule and Associates, Calgary, Alta.
HOONEY, G. - Taking Mining Course at University of British Columbia,
Vancouver, B. C.

Class of '43

FORREST, J. M. - C.M. and S., Kimberley, B. C.
MARSHALL, G.M.T. - INCO Stobie Mines, Sudbury, Ontario
OSTAPOVITCH, S. R. - Theodore, Sask.
POUNDER, D. A. - District Geologist, Standard of California, Brandon, Man.
URTON, R. E. - Shell Oil Company of Canada Limited, P.O. Box 880, Calgary,
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WARNING, E.F. - Geology Department, C. M. and S. Kimberley, B. C.
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Class of '10

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 KEVILL, A. R. - California Standard Oil, Calgary, Alta.
 McPHERSON, W. J. - Calvin Consolidated Oil and Gas, 2131 - 31st Ave. S.W.,
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 PECK, G. C. - R.C.A.F. Summerside, P.E.I.
 THOMAS, G. P. - Box 112, Hallsbury, Ont.

Class of '11

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 CAVERLY, J. - Gardner-Denver Company, Quincy, Ill., 623 - S. 18th Avenue.
 CHACHULA, S. - Farming at Bielefeld, Sask.
 FRANTZ, J. C. -
 HARDING, S.R.L. - J.C. Sproule and Associates, 901 - 8th Avenue, W.,
 Calgary, Alta.
 IBBOTSON, J. - Pacific Petroleum, Ft. St. John, B.C.
 LADD, H. S. - U.S. Geological Survey, Washington, D.C.
 MARKLAND, G.D. - Britannia Mines, Britannia Beach, B. C.
 SHIRKLE, J. - R.R. No. 1, Clairmont, Ontario
 TAYLOR, B. - Geologist, Gypsum Mining Corporation, 172 Frontenac Ave.,
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 Administration Building, Regina, Sask.
 HAMILTON, F. J. - Consulting, Calgary, Alta.
 HARDING, S.R.L. - J.C. Sproule and Associates, Calgary, Alta.
 HOOKEY, G. - Taking Mining Course at University of British Columbia,
 Vancouver, B. C.

Class of '13

FORREST, J. M. - C.M. and S., Kimberley, B. C.
 MARSHALL, G.M.T. - INCO Stobie Mines, Sudbury, Ontario
 OSTAPOVITCH, S. R. - Theodore, Sask.
 POUND, D. A. - District Geologist, Standard of California, Brandon, Man.
 URTON, R. E. - Shell Oil Company of Canada Limited, P.O. Box 880, Calgary,
 Alta.

Class of '44

EASTWOOD, G.E.P. - Department of Mines, Parliament Buildings, Victoria, B. C.
LEPP, H. - University of Minnesota, Duluth Br., Duluth 55, Minn., U.S.A.
MATHEWS, J. G. - Geologist, Development Department, C.P.R., Calgary, Alta.
WATSON, H. D. - Pipe Line Company, Edmonton, Alta.

Class of '45

LATOUR, B. A. - Geological Survey of Canada, Ottawa, Canada
PORTER, J. W. - District Geologist, Canadian Superior Oil Company of California, Regina, Sask.
THORSTEINSON, R. - Geological Survey of Canada, Ottawa, Canada
USHER, J. L. - Teaching palaeontology and stratigraphy at Queen's University, Kingston, Ontario

Class of '46

KIRKLAND, R. S. - Iron Ore Company of Canada, 1690 Graham Blvd., Montreal, P.Q.
MARKLUND, G. O. - Britannia Mines, P.O. Mount Shear, B.C.
MATHESON, K. A. - Oilfields Consultant Limited, 5807 - 104th Street, Edmonton, Alta.
SPROUL, W. R. - C. M. and S., Kimberley, B. C.

Class of '47

ASTON, H. F. - C.M. and S. Port Arthur, Ontario
CHERITON, C. - Anaconda American Brass Limited, New Toronto, Ontario
DAHLSTROM, C.D.A. - California Standard Company, Calgary, Alta.
PILOSKI, M. - (home address) Box 1308 Portage la Prairie, Man.

Class of '48

BAILLIE, R. M. - 2110 - 26th Avenue West, Calgary, Alta.
BANNISTER, W. E. - California Standard Oil, Calgary, Alta.
CALIMENTE, D. - 2860 S. Commercial, Salem, Ore., U.S.A.
GRANT, G. D. - California Standard Oil Company, Calgary, Alta.
HEWETSON, H. - Imperial Oil Limited, Calgary, Alta.
HORNEORD, H. - Imperial Oil Limited, Regina, Sask.
KUTZ, K. J. - Snow Lake, Man.
MacDONALD, G. K. - International Petroleum, Lima, Peru.
MacLEOD, R. - 1002 Division St., Billings, Montana, U.S.A.
McNINCH, J. - J. C. Sproule and Associates, 901 - 8th Avenue W., Calgary, Alta.
POW, J. R. - Petroleum and Natural Gas Conservation Board, 514 - 11th Avenue West, Calgary, Alta.
STUBBINS, J. - Iron Ore Company of Canada, Knob Lake, Que.

Class '49

BEARE, R. O. - Overseas S.V.P.M. Lirik, Sumatra.
BLEAKLEY, S. B. - Royalite Oil Company, Calgary, Alta.
BROWN, M. L. - Geologist, Aunor Gold Mines, Timmins, Ont.
BUCKLAND, R. S. - Gallup, Buckland and Ferney, Calgary, Alta.
CROCKER, C. S. - Howe-Sound Exploration Company, Snow Lake, Man.
CUNNINGHAM, G. E. - Anglo-American Exploration, Calgary, Alta.

Class of 1914

WATSON, H. D. - Pipe Line Company, Edmonton, Alta.
 MATHEWS, J. G. - Geologist, Development Department, C.P.R., Calgary, Alta.
 LEPP, H. - University of Minnesota, Duluth Br., Duluth 25, Minn., U.S.A.
 EASTWOOD, G.E.P. - Department of Mines, Parliament Buildings, Victoria, B. C.

Class of 1915

USHER, J. L. - Teaching paleontology and stratigraphy at Queen's University, Kingston, Ontario
 THORSTEINSON, R. - Geological Survey of Canada, Ottawa, Canada
 PORTER, J. W. - District Geologist, Canadian Superior Oil Company of California, Regina, Sask.
 LATOUR, B. A. - Geological Survey of Canada, Ottawa, Canada

Class of 1916

SPROUT, W. R. - C. M. and S., Kimberley, B. C.
 MATHEWS, K. A. - Oilfields Consultant Limited, 2807 - 10th Street, Edmonton, Alta.
 MARKLUND, G. O. - Britannia Mines, P.O. Mount Shear, B.C.
 KIRKLAND, R. S. - Iron Ore Company of Canada, 1690 Graham Blvd., Montreal, P.Q.

Class of 1917

PILICKI, M. - (home address) Box 1308 Portage la Prairie, Man.
 DAHLSTROM, C.D.A. - California Standard Company, Calgary, Alta.
 CHERITON, C. - Anacanda American Brass Limited, New Toronto, Ontario
 ASTON, H. F. - C.M. and S. Port Arthur, Ontario

Class of 1918

STUBBINS, J. - Iron Ore Company of Canada, Knob Lake, Que.
 POW, J. R. - Petroleum and Natural Gas Conservation Board, 211 - 11th Avenue West, Calgary, Alta.
 MCNINCH, J. - J. C. Sprouts and Associates, 201 - 8th Avenue W., Calgary, Alta.
 MACLEOD, R. - 1002 Division St., Billings, Montana, U.S.A.
 MACDONALD, G. K. - International Petroleum, Linn, Peru.
 KUTZ, K. J. - Snow Lake, Man.
 HORNBOOD, H. - Imperial Oil Limited, Regina, Sask.
 HEWETSON, H. - Imperial Oil Limited, Calgary, Alta.
 GRANT, G. D. - California Standard Oil Company, Calgary, Alta.
 CALMENTE, D. - 2880 S. Commercial, Salem, Ore., U.S.A.
 BANNISTER, W. E. - California Standard Oil, Calgary, Alta.
 BAILEY, R. M. - 2110 - 26th Avenue West, Calgary, Alta.

Class 1919

CUNNINGHAM, G. E. - Anglo-American Exploration, Calgary, Alta.
 CROCKER, C. S. - Howe-Sound Exploration Company, Snow Lake, Man.
 BUCKLAND, R. S. - Gallup, Buckland and Ferny, Calgary, Alta.
 BROWN, M. L. - Geologist, Anson Gold Mines, Timmins, Ont.
 BLEAKLEY, S. B. - Royallite Oil Company, Calgary, Alta.
 BEARE, R. O. - Overseas S.V.P.M. Lirik, Sumatra.

DUNNETT, J. F. - Pt. Radium, N.W.T., c/o Box 160, Edmonton, Alta.
 FLOOD, A. L. - L-M Oils, Regina, Sask.
 FLOWER, R. J. - California Standard Oil Company, Calgary, Alta.
 GOULD, C. D. - McBride Oil Company, Regina, Sask.
 HANES, F. E. - Geologist with Sohio Oil Company, Regina, Sask.
 HAMILTON, G. J. - Royalite Oil Company, Calgary, Alta.
 HATELID, W. G. - H.B.M. and S., Flin Flon, Man.
 HAUGRUD, G. - Consolidated Mic-Mac Oil, Edmonton, Alta.
 JACKSON, K. E. - Geologist with Canadian Superior Oil Company, Edmonton, Alta.
 JANKOWSKI, L. V. - 8 Blanchard St., Minnow Lake, Ont.
 KEITH, J. W. - Tennessee Oil and Gas Company, Calgary, Alta.
 LAATSCH, H. K. - Geologist with Superior Oil Company, Calgary, Alta.
 LOUCKS, W. A. - Calgary and Edmonton Corporation, Calgary, Alta.
 MacKAY, I. H. - California Standard Oil Company, Calgary, Alta.
 McKENZIE, R. O. - Geologist with Hudson Bay Oil and Gas, Calgary, Alta.
 MOREAU, M. J. - Moreau, Woodward and Company, Limited, (Geophysical Exploration) Box 522, Flin Flon, Man.
 NESBITT, J. - Geologist with Imperial Oil Limited, Regina, Sask.
 PEARSON, W. J. - Department of Mineral Resources, Government Administration Building, Regina, Sask.
 PICKEL, J. S. - Geologist, Imperial Oil Limited, Regina, Sask.
 RITTER, W. H. - Geologist, Texaco Exploration Company, Calgary, Alta.
 RODE, E. R. - Rush Lake, Sask.
 ROMPRE, B. J. - Stanolind Oil Company, Calgary, Alta.
 SMITH, J. R. - Professor of Mineralogy, University of Saskatchewan, Saskatoon.
 STEACY, J. A. - (home) 3137 College Avenue, Regina, Sask.
 STOBART, J. E. - Dominion Oil Limited, Box 199, Port of Spain, Trinidad.
 WARICK, J. S. - Production Staff of H.B.M. and S., Flin Flon, Man.
 WILSON, R. J. - Yellowknife, N.W.T.

Class of '50

AMBLER, J. S. - Sohio Petroleum, Regina, Sask.
 DEVINE, J. - Imperial Oil Limited, Edmonton, Alta.
 FRANCIS, D. R. - Department of Mineral Resources, Government Administration Building, Regina, Sask.
 FRIESEN, P. S. - 2329 - 3rd Ave. E., Prince Albert, Sask.
 HODGSON, F. P. - Box 160, Edmonton, Alta.
 HORTON, A. G. - 421 Staff Hotel, Deep River, Ont.
 KIRKLAND, S.J.T. - Department of Mineral Resources, Government Administration Building, Regina, Sask.
 POTAPOFF, P. - Falconbridge, Ontario
 POWLEY, D. E. - Pan-American Oil Company,
 SODERLAND, H. W. - Jamestown, Ontario, Box 143.
 TOMLIN, M. M. - Devon Palmer, Regina, Sask.
 TORRIE, J. E. - Sinclair Oil Company, Regina, Sask.
 VOLLO, N. B. - Snow Lake, Man.
 ZUROWSKI, M. - 1002 - 110th Street, North Battleford, Sask.
 KOSTIUK, M. - 18 Churchill Ave., Flin Flon, Man.

Class of '51

BECKIE, K. N. - H.B. Oil and Gas, 534A - 8th Avenue W., Calgary, Alta.
 CUMMINGS, G. L. - Canadian Gulf Oil Company, Calgary, Alta.
 DREW, D. A. -

JOHNSTON, G. K. = 1216 = 33rd Street East, Saskatoon, Sask.
KENDALL, G. H. = Imperial Oil Limited, Regina, Sask.
KERMEEN, J. S. = Consulting Geologist, Uranium City, Saskatchewan
McMILLAN, N. J. = Bureau of Mineral Resources, Canberra, Australia
MULLOCK, J. E. = INCO, Lac la Ronge, Sask.
SQUIRE, G. D. = Nance Exploration, Calgary, Alta.
STALMACH, E. W. = Melville, Sask.
VIGRASS, L. W. = Imperial Oil Limited,
WILLIAMS, F. J. = Sask. Federated CoOp., Saskatoon, Sask.

Class of '52

AGAR, C. F. = Shell Oil Company, Calgary, Alta.
ALMOND, P. = Iron Ore Company of Canada, Knob Lake, via Mont Joli, P.Q.
BERG, C. A. = Sinclair Oil, Regina, Sask.
BOYKO, W. = 23 Criagton Drive, Apt. 310, Scarborough, Ont.
CRANE, J.P.T. = Mobil Oil Company of Canada, Calgary, Alta.
EDMUNDS, R. = Shell Oil Company, Regina, Sask.
FRASER, D. J. = Sohio Petroleum Company, Calgary, Alta.
McLEOD, G. J. = Canadian Devonian, Regina, Sask.
O'BERTOS, E. = Post-Graduate work, University of British Columbia
REISNER, C. H. C. = Limerick, Sask.
ROTHERHAM, D. C., = Box 320, Lake Cowichan, B. C.
VOGT, P. R. = Imperial Oil Limited, Regina, Sask.

Class of '53

BASARABA, K. E. = Mobil Oil Company, Ankara, Turbey
MAGDICH, F. S. = Texaco Exploration Company, Calgary, Alta.
MATHEW, P. R. = Granby Cons., Copper Mtn., B. C.
WILSON, D. = Imperial Oil Limited, Calgary, Alta.
WOROBAY, W. A. = Shell Oil Company, Calgary, Alta.

Class of '54

ARMITAGE, J. H. = Imperial Oil Limited, Dawson Creek, B. C.
BERISOFF, M. = Calgary, Alta.
CHRISTIANSEN, E. A. = Geology Department, University of Illinois, Urbana, Ill.
U.S.S. A.
CLARK, L. A. = Geology Department, McGill University, Montreal, Que.
CROCKER, G. W. = Shell Oil Company of Canada, Calgary, Alta.
CRYDERMAN, J. M. = Imperial Oil Limited, Regina, Sask.
DUDAR, J. S. = 1009 Michigan St., Ann Arbor, Michigan, U.S.A.
GISLASON, B. G. = Wynyard, Sask.
JORDAN, S. P. = Shell Oil Company of Canada, Regina, Sask.
LEE, R. E., = Canadian Superior Oils, Regina, Sask.
MACRONE, A. W. = Shell Oil Company, Calgary, Alta.
OSACHOFF, S. = Shell Oil Company, Calgary, Alta.
PAXTON, J. = Brooks, Alta.
PETRUK, W. = Geology Department, McGill University, Montreal, Que.
SHKLANKA, R. = Stanford University, California, U.S.A.
THOMAS, R. B. = British American Oil Company, Regina, Sask.

Class of '55

BLOTT, A. J. - Sun Oil Company, Regina, Sask.
 CHERNOFF, C. N. - California Standard, Calgary, Alta.
 DEYHOLOS, A. M. - British America Oil Company, Regina, Sask.
 ECKSTRAND, O. R. - University of Stockholm, Stockholm, Sweden
 FREY, J. - Geology Department, University of Saskatchewan, Graduate Work
 FROESE, E. - Department of Mineral Resources, Regina, Sask.
 FROST, N. - Trans-Canada Pipelines, Calgary, Alta.
 GRASDAL, C. O. - Pan-American, Edmonton, Alta.
 HOVDEBO, H. R., - California Standard Oil Company, Edmonton, Alta.
 KENNEDY, G. - Rix Athabasca, Uranium City, Sask.
 LESIUK, O. - Mineral Resources, Swift Current, Sask.
 McMURTRY, G. J. - Royalite Oil Company, Calgary, Alta.
 MELNYK, M. J. - British American Oil, Estevan, Sask.
 NILSEN, L. R. - Gulch Mines, Uranium City, Saskatchewan
 PITULEY, L. J. - Iron Ore Company of Canada, Knob Lake, Quebec
 SAWATSKY, L. H. - Geology Department, University of Saskatchewan, Mastering
 REMPEL, Albert - Western Geophysics, Calgary, Alta.
 SIEMENS, D. L. - Western Leaseholds, Estevan, Sask.
 SMITH, B. K. - California Standard Oil Company, Regina, Alta.

Class of '56

BISHKO, J. P. - Western Geophysical, Calgary, Alta.
 BRUNT, G. M. - Department of Mineral Resources, Regina, Sask.
 BODNARCHUK, A. - Mastering, Colorado School of Mines, Golden, Colo., U.S.A.
 *COCHRANE, B. D. - Great Plains Development Company, Calgary, Alta.
 DAY, D. A. - Shell Oil Company, Calgary, Alta.
 EDWARDS, R. G. - Mastering, University of Saskatchewan, (Texaco Oil Co., Calgary).
 GREENWOOD, G. M. - California Standard Oil Company, Regina, Sask.
 HAMBLEY, G. B. - Canadian Nickel Company, Mystery Lake, Man.
 *JACKMAN, L. D. - Gulf Oil Company, Calgary, Alta.
 JANZEN, O. A. - B. A. Oil Company, Estevan, Sask.
 KANIK, T. - B. A. Oil Company, Edmonton, Alta.
 *LEVERSON, I. L. - California Standard Company, Calgary, Alta.
 *McELROY, M. E. - California Standard Company, Calgary, Alta.
 MCGINN, G. J. - Ireland
 McIVER, H. L. - Ph.D. John Hopkins University, Baltimore, Md., U.S.A.
 MATWE, L. - Stanolind Oil and Gas, Calgary, Alta.
 MENELEY, R. A. - Imperial Oil Company, Calgary, Alta.
 MENELEY, W. A. - Alberta Research Council, Edmonton, Alta.
 MORRISON, L. G. - Uranium City, Sask.
 NUTTING, A. L. - B. A. Oil company, Regina, Sask.
 OLSON, R. E. - Consolidated Mining and Smelting, Kimberley, B. C.
 PYKE, M. - Mastering, University of Saskatchewan, Saskatoon, Sask.
 ROGAN, A. D. - Texaco Oil Company, Calgary, Alta.
 *SMITH, D. C. - Stanolind Oil and Gas, Powell, Wyoming, U. S. A.
 SPRATT, L. M. - Triad Oil, Calgary, Alta.
 TIKKANEN, G. D. - Consulting, Flin Flon, Man.
 WILD, J. - Texaco Oil Company, Calgary, Alta.
 WADDELL, W. H. - Texaco Oil Company, Calgary, Alta.

Class of 1957

BEST, M. M. - Sun Oil, Calgary, Alta.
 DAAE, H. D. - B. A. Oil Company, Regina, Sask.
 *DUNDAS, J. R. - Imperial Oil Company, Regina.
 GILBERTSON-PRITCHARD, K. C. - B. A. Oil Company, Regina, Sask.
 *HOWRIE, I. S. - Imperial Oil Company, Peace River, Alta.
 ISFAS, G. - Imperial Oil Company, Regina, Sask.
 KENT, D. M. - Mastering, University of Saskatchewan, Geology Department
 KITZAN, P. - Shell Oil Company, Calgary, Alta.
 LAUDER, Marlene - Teaching, Saskatoon, Sask.
 MITCHELL, F. - Iron Ore Company of Canada, Montreal, Que.
 MORRISON, L. G. - Uranium City, Sask.
 NICHOL, M. A. - Mastering, University of Saskatchewan, Sask. Geology Dept.
 PODHORODESKI, P. - Teaching, Unive
 RUDICHUK, R. A. - Tidewater Associated Oil Company, Regina, Sask.
 *SAKUNDIAK, E. C. - California Standard Oil Company, Calgary, Alta.
 *TODD, M. B. - Tidewater Associated Oil Company, Regina, Sask.

UNDERGRAD ACTIVITIES

• Summer 1957

Fourth year Engineers

Name	Home Address	Summer Activity
Bierlmeier, W. G.	Chelan, Sask.	Imperial Oil, B. C.
Beckie, V. G.	Bladworth, Sask.	G.S.C. (Yukon)
*Conn, G. T.	Calgary, Alta.	Pacific Petroleum (St. John, B.C.)
Crawford, L. B.	Watrous, Sask.	Can. Nickel Co. (N.W.T.)
Evans, W. D.	Unity, Sask.	Imperial Oil (Sask)
Goldack, G. R.	Prince Albert, Sask.	Eldorado Mining and Refining, Uranium City
Gotts, R. J.	Atikokan, Ont.	Can. Nickel Co. (N.W.T.)
Gulstene, K. N.	Foam Lake, Sask.	Imperial Oil
Hutch, G. F.	Druid, Sask.	Shell Oil Company
Lissey, A.	Regina, Sask.	Imperial Oil Company
Norlander, A. M.	Flin Flon, Man.	Hudson Bay Exploration and Development, Flin Flon
Perkins, G. D.	Regina, Sask.	Mobil Oil, N.W.T.
Pryce, B. G.	Nipawin, Sask.	Imperial Oil Company
Reinhardt, E. W.	Asquith, Sask.	Sun Oil Company (Sask.)
Smith, D. A.	North Battleford, Sask.	Sun Oil Company
*Smith, W. L.	Manor, Sask.	B. A. Oil Company
Toth, A. M.	Regina, Sask.	Dept. Mineral Resources, Regina, Sask.
Yont, D. R.	Marchwell, Sask.	California Standard Oil Co. (N.W.T. and N.E. B.C.)

* Petroleum Engineers

Geological Engineers

Yamaguchi, D. R.
Watson, L. H.

Tech, A. M.
Smith, W. L.

Smith, D. A.
Hawthorn, E. W.

Prune, B. G.
Barnes, D. D.

Worthington, A. M.
Lillington, G.

Prune, V. F.
Gusterson, K. N.

Boes, R. J.
Gusterson, R. N.

Worthington, C.
Gusterson, G. R.

Evans, V. D.
Gusterson, L. B.

Boes, T.
Beckie, V. G.

Worthington, W. G.
Beckie, V. G.

Worthington, H.
Worthington, L. H.

Worthington, D. B.
Worthington, D. B.

Geological Engineers

Worthington, H.
Worthington, L. H.

Worthington, D. B.
Worthington, D. B.

Worthington, H.
Worthington, L. H.

Worthington, D. B.
Worthington, D. B.

Worthington, H.
Worthington, L. H.

Worthington, D. B.
Worthington, D. B.

Worthington, H.
Worthington, L. H.

Worthington, D. B.
Worthington, D. B.

Worthington, H.
Worthington, L. H.

Worthington, D. B.
Worthington, D. B.

Worthington, H.
Worthington, L. H.

Worthington, D. B.
Worthington, D. B.

Worthington, H.
Worthington, L. H.

Third year Engineers

Name	Home Address	Summer Activity
Andrews, D. A.	Torquay, Sask.	Geological Survey of Canada
Cartwright, D. J.	Moose Jaw, Sask.	Fish Service Corp. (pipeline)
Gagnon, P. M.	Calgary, Alta.	Shell Oil Company (Calgary)
Gorrill, R. G.	Bulyea, Sask.	Dept. of Mines and Tech. Surveys
Hage, T. E.	Davis, Sask.	Sask. Dept. of Agriculture
Hamilton, W. N.	Lumsden, Sask.	Geological Survey of Canada (N.W.T.)
Koroluk, S. L.	Hyas, Sask.	Eldorado Mining and Refin- ing Company.
McCuaig, D. J.	Saskatoon, Sask.	Sask. Dept. of Agriculture
Milne, L.	Meadow Lake, Sask.	Dept. Mineral Resources (Sask)
Pfeffer, B. J.	Elbow, Sask.	Sask. Dept. of Agriculture
Pisio, P.	Quill Lake, Sask.	
Unick, E. W.	Richmond, Sask.	Sask. Dept. of Agriculture

ARTS - Third and Fourth Year

Ayres, L. D.	Saskatoon, Sask.	Dept. Mineral Resources (Sask)
Cojocar, R. G.	Regina, Sask.	Industrial X-ray (Dawson Creek)
Doane, H. L.	Moose Jaw, Sask.	B. A. Oil Company
Evans, K.	Brandon, Man.	
Friesen, J.	Asquith, Sask.	Banister Const. (pipeline)
Frison, E.	Batoche, Sask.	Geological Survey of Canada (Telegraph Creek, B.C.)
Hardy, D. D.	Midale, Sask.	Geological Survey of Canada (Telegraph Creek, B.C.)
Kaufmann, B.	Pangman, Sask.	Imperial Oil (Sask)
Larson, L. H.	Saskatoon, Sask.	B.A. Oil Company (N.W.T.)
LeBlanc, M. C.	Regina, Sask.	Geological Survey of Canada (southern B.C. - Pulcells)
Marcotte, P.	Hudson Bay, Sask.	Pan American Petroleum (N. of Banff)
McCallum, J.	Regina, Sask.	Mobil Oil (Drayton Valley, Alta)
Miedema, O.	Saskatoon, Sask.	Dept. of Mineral Resources
Officer, C. A.	Regina, Sask.	Highways lab. Sask. Govt.
Pyke, D. R.	Saskatoon, Sask.	Geological Survey of Canada (Flathead area, B.C.)
Sharpley, F.	Saskatoon, Sask.	Canadian Nickel Co. (N.W.T.)
Shillington, G.	Carnduff, Sask.	Geol. Survey of Canada (Yukon)
Sorokowsky, V.	Saskatoon, Sask.	Dept. Mineral Resources (Sask)
Squair, H.	Maidstone, Sask.	Dept. Mineral Resources (Sask)
Sykes, D.	Saskatoon, Sask.	Geol. Survey of Canada, (Telegraph Creek, B. C.)
Williams, W.	Saskatoon, Sask.	Geol. Survey of Canada (Anticosti Island, P.Q.)

ARTS - Second year

Name	Home Address	Summer Activity
Delome, D. L.	Assiniboia, Sask.	Dept. of Mines and Tech. Surveys
Emery, W. R.	Saskatoon, Sask.	
Greaves, K. R.	Regina, Sask.	Dept. Mineral Resources
Khan, A. A.	Trinidad, B.W.I.	Sask. Dept. of Highways
Lawson, G.	Regina, Sask.	
Roed, M. A.	Tisdale, Sask.	Geol. Lab. Regina
Zederayko, E. E.	Canora, Sask.	Accurate Surveys (geo- physical) Edmonton

Master Students

Frey, J.	Leader, Sask.	Bun Oil Company
Kent, A. M.	Regina, Sask.	Recuperating from 4 years University ??
McCamis, J. G.	Alden, Man.	California Standard Oil Co. (Regina)
Nichol, M. A.	Regina, Sask.	Inco (N.W.T.)
Pyke, M. W.	Saskatoon, Sask.	Dept. Mineral Resources
Sawatsky, L. H.	Swift Current, Sask.	Shell Oil (Regina)

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The Concentrates is in need of more funds, it is being printed largely out of student contributions. We, therefore, make an appeal to all subscribers for assistance. If you know of some alumnus who is not receiving the Concentrates, please notify him of our condition.

Some men never need glasses - they drink right out of the bottle.

FACULTY'S ACTIVITIES - 1957

Last summer Dr. Mawdsley had the good fortune of taking part in two completely different expeditions. One was to Kimberley and Train, B. C., in July and the other to the United Kingdom and Norway in August.

The trip to British Columbia was made in place of Dean Fraser as one of the University's representatives at the opening of a new wing to Cominco's research laboratory at Trail. Dr. Spinks of the Chemistry Department was the other representative. The major work at this laboratory, staffed by over 40 research workers - some geologists of Saskatchewan, is being done, on mineral dressing and metallurgy.

Prior to the visit at Trail Dr. Mawdsley and Dr. Spinks spent two days at the Sullivan Mine at Kimberley. While there they were able to make a tour of the large deposit of lead and zinc under the guidance of Rus. Sproule, Geological Engineering graduate from Saskatchewan in 1946, the mine geologist.

The remainder of Dr. Mawdsley's summer was spent on the following journey:

On the First of August I left Halifax aboard the frigate, H.M.C.S. Lanark. She sailed in company with the frigate H.M.C.S. Fort Erie on a training cruise to the United Kingdom and Norway. These ships are 300 feet long and 36 feet wide and have a top speed of about 20 knots and were primarily designed for anti-submarine convoy duty. Although under strength the R.C.N. crew numbered 130 and each carried 52 U.N.T.D. cadets. It was all very interesting and instructive. The officers - some from the Prairies - were fun-loving, efficient extroverts who had no doubts as to what their duties were and what their ship's role might be.

After eight days of dull but not too rough weather we tied up to a buoy in Rotheray harbour, on the Clyde, west Glasgow. I obtained leave and spent four days near Chester, south of Liverpool, with relatives and had a good look at this attractive city which dates back to the Roman times, as is clearly evident by some of the unearthed ruins. On the fifth day I rejoined the ship and on the following morning we started up the west coast of Scotland. It was misty and raining but much of the rugged and inspiring scenery was visible, and at night the flashes of the light houses guided us on our way. Next morning we passed between the Shetlands and Orkneys into the not-too-calm North Sea. The following morning, in clear weather, we made the land fall and in line-ahead we threaded between the islands and along the fjord to the attractive city of Bergen.

Bergen is a clean, beautiful city of 110,000, built about two bays and the high ground back of them. It is at the latitude of 60°23' north of Saskatchewan's north boundary. However, the Gulf Stream gives it a mild though rainy climate.

It used to be the ancient capital of Norway and its citizens consider Oslo as a mere youngster. There are some interesting buildings

that go back to the 12th Century, and the steep narrow streets of the older sections and the wide well kept business streets with their shops are most attractive. It is a great place to stock up on pewter, silver and pottery of very distinctive and attractive designs.

The powerful and oppressive trading combine, the Hanseatic League, at one time controlled much of the city's activities and some of their medieval store houses are still to be seen. Also it was not hard to imagine the earlier Viking expeditions that left this ancient seaport on forays and explorations.

One long day was spent travelling by train, bus and boat in an area east of the city. Magnificent country with thousands of feet of relief, isolated villages and farmsteads and the most frightening of precipitous roads. A land to go back to.

After five days at Bergen where we were entertained by the Norwegian Navy and some of the hospitable citizens we reluctantly cast off, made our tortuous way to the coast and entered the North Sea. Seven days later we entered the Straits of Belle Isle and got into a real good blow. After another two days we entered Halifax harbour - the end of what to me was a most notable and interesting cruise in a ship of a Navy to be proud of."

Professor Edmunds - Last summer Professor Edmunds was "back to normal" as he spent most of his summer in Saskatchewan after spending the two previous summers in other continents. He found the change a pleasant one and that Saskatoon is a lovely city in the summer months a time at which, unfortunately, few university students are able to see it.

Later on in the summer Professor Edmunds and his wife made a motor trip to revisit Glacier National Park. They went there via Sweetgrass and the Kevin-Sunburst field. While there, they visited many places they had not seen before such as East Glacier, Two Medicine Lakes and Many Glacier. They stayed at West Glacier near Logan Pass. Professor Edmunds found Logan Pass to have a fine road, magnificent scenery, alpine flora and fauna and good geology, but unfortunately no fossils except Precambrian algal limestones. From Glacier they went west to Spokane and then north back to Canada and north to the Crowsnest Pass. From Coleman in the Pass they drove north through the mountains on the Kananaskis Forestry Road. This last route proved to be very interesting and opened up a new area of geological interest for the Professor.

In September, shortly after the arrival of Dr. Caldwell from Scotland, the two of them made an excursion to southeastern Saskatchewan to reconnoiter for the fall field trip. Dr. Caldwell was duly impressed with the topography but Professor Edmunds reports that fossils were rare and it was only with difficulty that he was able to prevent Dr. Caldwell from chipping specimens from various public buildings and a church in Moose Jaw. They hope to go into more approved sites this spring.

Dr. Byers - Unlike most of the other members of the Department Dr. Byers remained fairly close to the University during the summer months. He was employed by the Department of Mineral Resources, Regina. Part of his summer was spent in the Flin Flon and La Ronge area, but most

of the summer involved the preparation of a report on the geology of the Hanson Lake area. This latter work was done at the University of Saskatchewan.

Dr. Kupsch - When asked about his work during the summer holidays Dr. Kupsch replied "What do you mean holidays? I never take any holidays." He then went on to say that during the past summer office work took the place of field work and New York was headquarters rather than the Cypress Hills Park. However, he did not lose touch with his old stamping ground because he was looking at Saskatchewan topographical maps and air photographs while enjoying air conditioning in an otherwise sweltering metropolis.

As a part of the Photogeology Unit of Gulf Oil Corporation he came in contact with geologists working on projects in all corners of the world. Some of his most interesting and important contacts were made after work in the bar in the basement of the office. After an hour or so, Dr. Kupsch said that one could hear the most amazing geological theories that, undoubtedly will revolutionize the search for oil. These are, of course, company secrets.

Two weeks fieldwork in Saskatchewan, spent mapping surficial deposits, brought his summer to a pleasant close. However, more problems turned up than were solved so it looks as if there will be more work next year and for some years to come.

Dr. Shearn - spent the first part of the summer period working for the Department of Mineral Resources on several Saskatchewan reservoirs. Some of his time was devoted to problems connected with dual production from the Midale and Frobisher beds in southeastern Saskatchewan, and most of the remainder to the Battum field. Industry and the Department alike are concerned about the low potential recoveries from the heavy oil fields of southwestern Saskatchewan. Some method of underground gasification may be the eventual answer, and there is plenty of scope for research in this field - petroleum engineers please note!

Later in the summer Dr. Shearn took off for a visit to his homeland. Some of his time was spent dabbling in research at Birmingham - his old Alma Mater, where considerable expansion of facilities has taken place since he left. The Chemical Engineering and several other Departments have acquired new buildings and the Geology Department has about doubled in size - taking over some of the space vacated by the general move around - shades of things to come in Saskatchewan! Dr. Shearn made a whirlwind tour which took him through the Eakring area of Nottinghamshire, where the new Egmonton field has boosted U.K. oil production (to a mere 1,500 bbls/day!); to Highlands of Scotland, where he ran across some hydro-electric development; and to the Lake District, where he saw Calder Hall atomic power station. He also managed to get in some motoring on the Continent - down the Rhine and through the Black Forest.

Dr. J. R. Smith - is a native of Saskatchewan, being born in Regina in 1925. He was raised there and, after serving in the Canadian Army from 1943-45, he attended the University of Saskatchewan (B.Sc. 1949 in Geological Engineering). He attended Laval University in 1949 and 1950 receiving his M.Sc. in 1950. He then attended Princeton University (1950-1954) and his thesis on the optical properties of low temperature plagioclase earned him the degree of Ph.D. While obtaining his formal education, he

spent two summers with the Geological Survey of Canada in northern Saskatchewan. In the summer of 1949 he did detailed mapping in Quebec for his Master's thesis. From 1950 to 1954 he spent the summers mapping for the Quebec Department of Mines in the Chibougamau Region. In 1955 and 1956 he spent the summer studying the coast ranges of mountains in Venezuela. From 1954-57 he was at the Geophysical Laboratory, Carnegie Institution of Washington on a post-doctorate fellowship where he did x-ray and optical studies of plagioclase and phase equilibrium studies in the systems $\text{NaAlSi}_3\text{O}_8$ - JAlSi_3O_8 - $\text{Ca Al}_2\text{Si}_2\text{O}_8$ - H_2O and FeO - Fe_2O_3 - SiO_2 - H_2O . He was appointed to the University of Saskatchewan and to the Saskatchewan Research Council in September of 1957. He is teaching mineralogy and geochemistry. His research plans include:

1. General application of X-ray techniques to mineralogical studies at this university.
2. Continuation of his phase-equilibrium studies in feldspars, using equipment in which chemical reactions can be studied at temperatures up to 1000°C and pressures up to 30,000 p.s.i. (equivalent to depths of 8 km. in the earth).
3. Study of regional metamorphism in northern Saskatchewan.

Dr. W. G. E. Caldwell - was born in Millport, Isle of Cumbrae, Scotland in 1932 after completing his elementary and secondary education he entered the University of Glasgow in the fall of 1950 and graduated with first class honours in geology in 1954 (B.Sc.). He was awarded a Maintenance Award by the Department of Scientific and Industrial Research and commenced research on the stratigraphy, palaeontology and structure of an area of Lower Carboniferous (Mississippian) rocks in central Ireland. Submission of a thesis on this work in the spring of 1957 earned him the degree of Ph.D. Prior to receiving his doctorate, he was appointed to the staff of the University of Glasgow in the fall of 1956. He flew to Canada late in the summer of 1957 to take up a position as Special Lecturer at Saskatchewan.

Dr. Caldwell is at present teaching classes in palaeontology and sedimentation and hopes next year to expand the teaching of palaeontology by introducing an additional course dealing with certain groups of invertebrate fossils (including micro-fossils), certain aspects of vertebrate paleontology, and the principles of palaeontology.

Important Editor's Notes:

Dr. Caldwell states that the fossil collections are quite inadequate for future needs, and urges all students engaged in field parties, during the summer months or after graduation, to send as much material as possible to the department.

We wish to make it known that any specimens found (fossils, minerals, structures, etc.) may be shipped collect to the Department of Geology, University of Saskatchewan. It is preferred that these shipments be made by freight, if possible. All types of specimens are gladly accepted by the department.

1957 FIELD TRIP

With Professor Edmunds and Drs. Mawdsley, Caldwell, Byers, and Kupsch in attendance, a Saskatchewan Transportation bus left the Engineering building one bright October morning.

The first port of call was a Belly River sandstone outcrop on the South Saskatchewan River near Outlook. Among the fossils collected was a bison skull, discovered by Bob Gotts in the glacial drift.

An outcrop of Bearpaw Shale was examined near Elbow. Don Sykes came up with some splendid specimens of baculites on searching for fossils. Barite rosettes and selenite were also found in abundance.

Friday evening was spent in Regina where a banquet was prepared by former Ganguesters. The highlight of this event was the informal comments of the grads on their success of business life.

Saturday morning commenced with a tour of the Department of Mineral Resources with the various officials explaining the operations of the department. The problems relating to the nomenclature and correlation of the Mississippian of the Williston Basin were also discussed. A tour of the department core lab followed. Lunch was served in the cafeteria of the department.

The chartered bus proceeded to Weyburn on Saturday afternoon where Mobil Oil arranged a tour of its property in the South Roughbark field. This included a battery with separator and a pumping well.

Aragonite, limonite and siderite specimens were found in an outcrop near Halite. Saturday evening was spent in Estevan.

Sunday morning's itinerary included an inspection of Dr. Wettieuffer's archeological diggings. He explained the technique of digging and showed numerous Indian artifacts which he had uncovered.

The Manitoba and Saskatchewan Coal Company Limited provided a tour of their coal hoppers and equipment used for strip mining. A very excellent Thanksgiving dinner was served by the company.

A wind eroded sandstone outcrop, which contained many passages and caves, was investigated at Roche Percée. The wind had attacked the weaker joints and the sculpturing resulted.

Sunday evening was spent in Estevan.

On Monday morning Shell Oil guided the party through its property in the Midale field. This included an operating drilling rig and their water disposal plant. This rig held the speed record for an eight hour shift, a penetration of some twenty-four hundred feet.

A football game was viewed in Regina Monday afternoon. An added attraction was the presentation of the "Miss Roughrider" candidates. They received a warm ovation as well as the "Engineers' Yell."

The enjoyable, informative trip was marred by a mishap Saturday evening. Jack Campbell, former president of the Engineering Society, was the driver of a car which rolled. The passengers were Sharpley, Sykes, Smith, Friesen and Williams, all members of the Ore Gangue. Bill Williams injured his back which will prevent him from partaking of any field activities this summer. The other passengers and the driver received cuts and bruises.

Spring Banquet

The annual spring banquet was held in early March, 1957 at the Marigold Cafe and, despite a rather poor turnout, it was a fine windup of the years' activities.

Following a turkey dinner, the proceedings were conducted by newly elected president Burt Crawford.

Toast to the faculty was proposed by Ian Howrie and responded to by Dr. Kupsch.

The toast to the graduates was made in poetry by Don Smith and was replied to, also in a poem, by Don Kent.

Dr. Mawdsley announced the winners of the annual essay contest, top honors being shared by Lee Morrison and Ian Howrie.

The guest speaker for the evening was Mr. Hal Sebnert, manager of the Regina branch of Sohio Petroleum, who gave a very interesting and informative talk on "What to expect from industry and what industry expects from you."

Official Ore Gangue activities came to a close around 10 p.m.

"Well", said the doctor, there is nothing wrong with you except you are lazy.

"Thanks, Doc", replied the patient, "now give me a fancy scientific name for it so I can tell the boss!"

A man should work eight hours, play eight hours, and sleep eight hours, but they should not be the same eight hours.

NOTABLE DEVELOPMENTS IN THE DEPARTMENT

This year we seem to have finally broken through the supersonic barrier, or something like it, and are definitely on the roll. This has been achieved with the very important help of our friends in the mineral industry. All this is much appreciated by us and the University administration. The latter have been under mounting pressure from all sides due to the rapidly increasing numbers coming to the University. The increase is far beyond that estimated by the Dominion Bureau of Statistics. Last year there were 3,000 students - in session this year 3,600!

The Geology staff went up by two this year and now number six, not counting the professor of Petroleum Engineering. One addition on the hard rock side is Dr. J. R. Smith, and the soft rock man is Dr. W. G. E. Caldwell, (see Faculty Activities). Dr. Smith's appointment is partially under the auspices of the Saskatchewan Research Council, and Dr. Caldwell's is financed by \$5,000 kindly donated to us by The Shell Oil Company of Canada, Limited for this year and for the next, at least. Both are very well trained, able, keen young men who raise our potential as a department considerably.

On approaching Dr. Smith sometime ago regarding his coming here he made it clear that he wanted to continue the higher temperature and pressure work on silicates he was doing in Washington and that besides high temperature and pressure equipment an X-ray diffractometer would be needed costing all told over \$25,000. As there was no obvious source for this big sum evident we approached the mining companies of our acquaintance and got a cordial, understanding response which to date amounts to \$26,500. As a result we can hold a first class teacher and researcher.

In a like understanding manner Shell has made it possible to appoint a first class man on the soft rock side - Dr. Caldwell.

It should also be mentioned here that over the last five years Tidewater Associates has given us a total of \$6,500 which has helped materially in improving our library, till it is one of the best in Western Canada, and to get much needed equipment.

All this outside financial aid has been a great moral builder. It is stimulating to have money we can turn to at a moment's notice to obtain something immediately needed by a graduate student, or a staff member without having to budget for it for over a year ahead.

We hope that these two important gifts by Shell and Tidewater are merely the forerunner of more. We could easily use \$25,000, or more, to boost laboratory and other teaching and research facilities of interest to the oil and gas industry to do with structure, palaeontology, sedimentation, stratigraphy, Pleistocene, physiography, and geophysics.

A course in Geophysics has been designed and accepted by the Engineering Faculty and will be initiated next year. It will be known as the Geological Engineering - Geophysical Option. As it is in the College of Engineering it will contain the basic training in engineering subjects as well as the basic sciences. It will consist of five classes in geology, four in physics, three in mathematics, one and a half in geophysics,

one and a half in chemistry, two in English and Economics and the rest Engineering. If a student wants a course without the engineering background he can take a four-year, Honours course in Arts and Science. Professor Byers will be giving the Geophysics, until we can get authority or help to increase our staff by a much needed specialist in Geophysics. In fact we are now the only major Canadian University without one.

We are being given the carpenter shops and store room on the ground floor of the Engineering building. This will make things much more convenient but we still lack a minimum of 3,500 square feet and much equipment. One of these fine days a separate building for research and teaching of direct importance to the mineral industry will have to come. This would be a logical step when you consider the mounting importance mineral resources are in this province.

As is well known all Canadian universities are growing rapidly causing their administration much financial worry - the demand for more staff and equipment comes from all faculties and departments. This institution is no exception. This year we have 3,600, next year we expect a further increase of over 500. As each of these students take five classes, or more, and means at least a dozen more should be added to the University staff and space to look after them.

All this brings up the point if the Graduates should not bat around the idea of establishing a fund to aid the Department. It could have some such title as the Geology Endowment Fund, or Geology Teaching and Research Fund, University of Saskatchewan. It must not in any way compete with the University's regular Endowment Fund, but it might conceivably attract money from sources that would not normally contribute to the University Fund. It is not so much the size of the donation that is significant, quite small ones would be welcomed, and, if numerous, would as well strongly indicate to people in influential quarters the value and importance that the graduates attach to the efforts of the Department.

A head-office "arm-chair geologist" was out visiting one of the company's field parties. He was being shown the area by canoe and, as he and the party chief were shooting a series of rapids, he expressed concern at the growing fury of the swirling water and the jagged rocks on every side.

"Don't worry for a minute" the party chief assured him, "I know every rock in these rapids." Just then the canoe smashed into a rock head-on and capsized. The head office man found himself floundering in the current, his gear scattered in every direction.

"You see," said the party chief, attempting to rescue his paddle, "there's one of the damn things now!"

Thanks to:

Mrs. E. Sins ~ Geology librarian and stenographer who aided the editors in countless ways and, in fact, made the production of the Concentrates possible.

Ernie Hawkins ~ the Geology lab technician who has prepared, cut an infinite number of thin sections for theses and labs and who can locate almost anything required in the line of scientific equipment.

Bryan Pryce ~ for redrawing the cover of the Concentrates. The original came from G. J. McLeod '52.

Don Kent: for his helpful advice regarding the assemblage, production and distribution of the Concentrates.

Congratulations to:

Bill Williams and Gordon Gorrill: newly elected president and secretary-treasurer of the 1958-59 Ore Gangue.

Murray Todd and Roy Rudichuk: winners of the Ore Gangue Memorial Prizes, the former for academic work, the latter for leadership.



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ATHLETIC AND SOCIAL ACTIVITIES

Curling

Once again the Ore Gangue obtained the use of the Rutherford Rink curling sheets on Saturday afternoons. On February 8th a bonspiel was run off. The winning rink was composed of Ron Cojocar, Murray Roed, Ted Hage and Bev Pffeffer. The champs consumed the "grand prize" almost immediately (4 mickeys).

Fall Banquet

With Gus Tempel as guide, some twenty odd hopeful geologicals toured O'Keefes' Brewery. Since the tour ended at four and the banquet did not begin until six, most wandered down to the Empire to have peanuts and tomato juice.

The banquet was held in the Marigold Cafe's Bamboo Gardens. An excellent steak was served with the proper refreshments. Drs. Mawdsley, Byers, Shearn, Kupsch, Smith, Caldwell and Professor Edmunds were in attendance.

Extremely interesting slides of Australia, taken by Professor Edmunds on his world tour, were shown. Slides of Trail, B. C., were also shown, these by Dr. Mawdsley. Summer work was illustrated by Don Kent and Gordon Hutch by a series of slides.

As usual, the memorable evening came to an end all too suddenly to suit most.

FLASH:

March 24, 1958

The Board of Governors of the University besides authorizing the new space the department will occupy next fall has also made a special grant of \$8,500 for the purchase of technical equipment such as microscopes, geochemical apparatus, stereoscopes, etc., to meet the urgent need the Department has for this equipment. Naturally we are very grateful for this help the Department is receiving.

ATHLETIC AND SOCIAL ACTIVITIES

Curling

Once again the Ore Gangue obtained the use of the Rutnerford rink curling sheets on Saturday afternoons. On February 6th a bonspiel was run off. The winning rink was composed of Ron Collocart, Murray Reed, Ted Hage and Ben Piller. The champs consumed the "grand prize" almost immediately (in minutes).

Fall Banquet

With Gus Tempel as guide, some twenty odd hopeful geologists toured O'Keefe's Brewery. Since the tour ended at four and the banquet did not begin until six, most wandered down to the Empire to have peanuts and tomato juice.

The banquet was held in the Harigold Cafe's Bamboo Gardens. An excellent steak was served with the proper refreshments. Drs. Mawdsley, Byers, Sherrin, Kupsch, Smith, Caldwell and Professor Edwards were in attendance.

Extremely interesting slides of Australia, taken by Professor Edwards on his world tour, were shown. Slides of Trail, B. C., were also shown, these by Dr. Mawdsley. Summer work was illustrated by Don Kent and Gordon Hutch by a series of slides.

As usual, the memorable evening came to an end all too suddenly to suit most.

March 26, 1958

FLASH:

The Board of Governors of the University besides authorizing the new space the department will occupy next fall has also made a special grant of \$8,500 for the purchase of technical equipment such as microscopes, geochemical apparatus, stereoscopes, etc., to meet the urgent need the Department has for this equipment. Naturally we are very grateful for this help the Department is receiving.